RIBO- OR DEOXYRIBO-TYPE

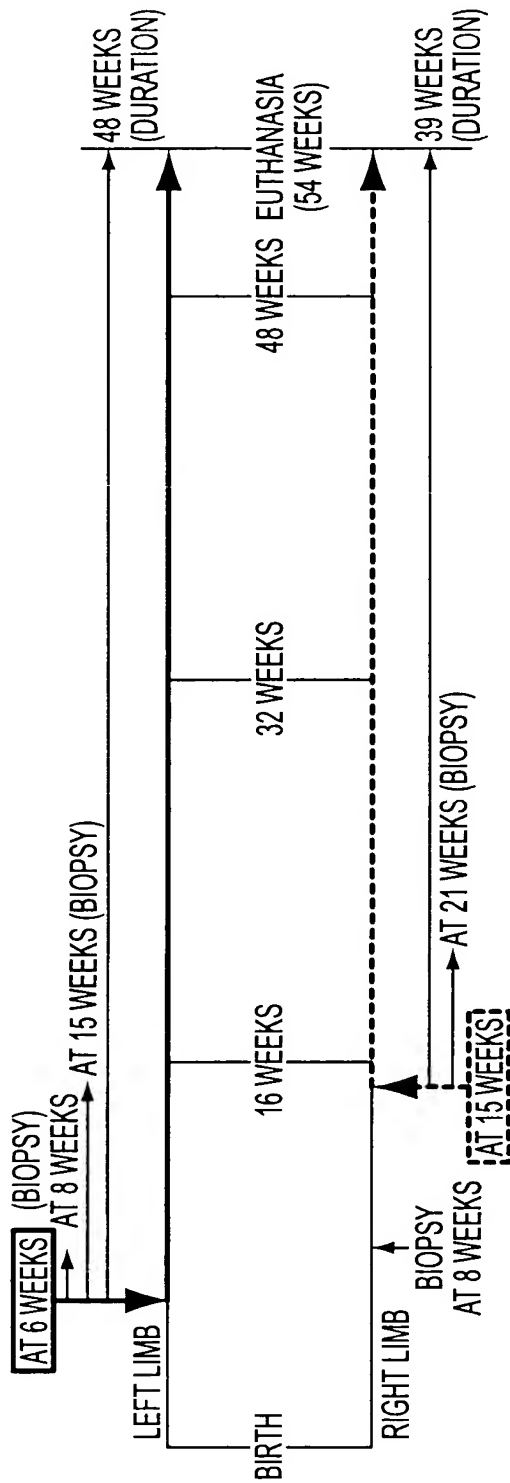DEOXYRIBO-TYPE

RIBO-TYPE

LINKER

SEGMENT BOUNDARIES

FIG. 1

intron 6 / EXON 7

NORMAL HUMAN   ---t g t g t g t t t a g|G C C A G A C C T C T T T G---
NORMAL CANINE ---t g t g t g t t t c a g|G C C A G A C C T C T T T G---
GRMD MUTANT   ---t g t g t g t t t c g|g c c a g a c c t c t t t g---

```
 TCGCGC - a c a c a c a a A A T C C g g t c t g g a g a a a c T T
T                                                              T
 TGCGCG  T G T G T G T T T T A G G C C A G A C C T C T T T G T
  3'  5'
```

FIG. 2

FIG. 3

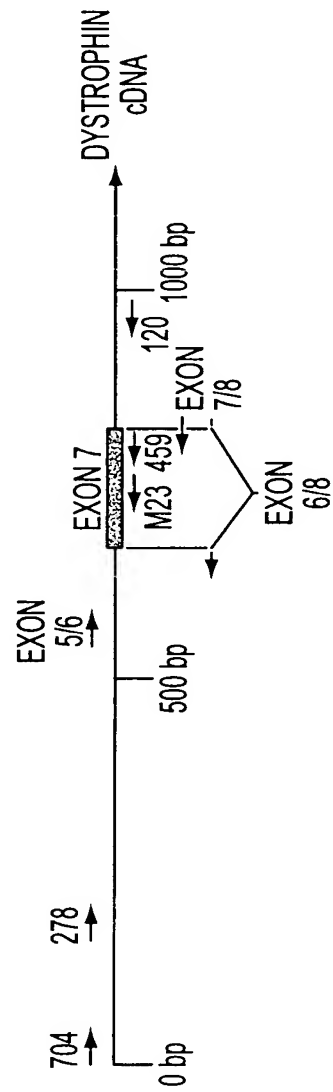FIG. 4

NORMAL (C57)

```
                3170        3180        3190        3200
                 •           •           •           •
     ...CAA AGT TCT TTG AAA GAG CAA CAA AAT GGC TTC AAC TAT CTG AGT ...
```

mdx

```
                                        (STOP)
     ...CAA AGT TCT TTG AAA GAG CAA TAA AAT GGC TTC AAC TAT CTG AGT ...
```

FIG. 5A

```
5'                                                                          3'
TCTTTGAAAGAGCAACAAAATGGCTTCAACTTTTTguugaagccauuTTGTTGcucuuucaaagaCGCGCTTTTGCGCG
                      3' 5'
     T GC GCG TCT TTG AAA GAG CAA CAA AAT GGC TTC AAC T
     T                                                 T
     T                                                 T
     T CG CGC aga aac uuu cuc GTT GTT uua ccg aag uug T
```

FIG. 5B

```
                      3' 5'
     T GC GCG TCT TTG AAA GAG CAA CAA AAT GGC TTC AAC T
     T                                                 T
     T                                                 T
     T CG CGC aga aac uuu cuc GTT GTT uua ccg aag uug T
                     ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
     ...CAA AGT TCT TTG AAA GAG CAA TAA AAT GGC TTC AAC TAT CTG ...
     (mdx)
                                    ↓
     ...CAA AGT TCT TTG AAA GAG CAA CAA AAT GGC TTC AAC TAT CTG ...
("CORRECTED" mdx)
```

FIG. 5C